

ABSTRACT OF THE DISCLOSURE

The present invention generally provides a downhole tool with an improved means of transmitting data to and from the tool through the use of wired pipe capable of transmitting a signal and /or power between the surface of the well and any components in a drill string. In one aspect, a downhole tool includes a body, and a mandrel disposed in the body and movable in relation to the body. A conductive wire runs the length of the body and permits signals and /or power to be transmitted through the body as the tool changes its length.

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